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## (54) Computer security system

(57) Several embodiments of computer security systems are described and which are adapted to grant an authorized individual access to a secured domain, such as a computer or data stream. In one embodiment, the security system comprises: an analyzing means for receiving first and second passwords, each of said passwords being transmitted over a first communication channel, analyzing said first password, transmitting a first signal output only if said first password is author-

ized, and granting access to said secured domain only if said second password is substantially identical to a code; and a random code generating means for generating said code, transmitting said code over a second communication channel upon receipt of first signal output, and transmitting said code to said analyzing means; and a notification means for receiving said code and for notifying said authorized individual of the identity of said code.

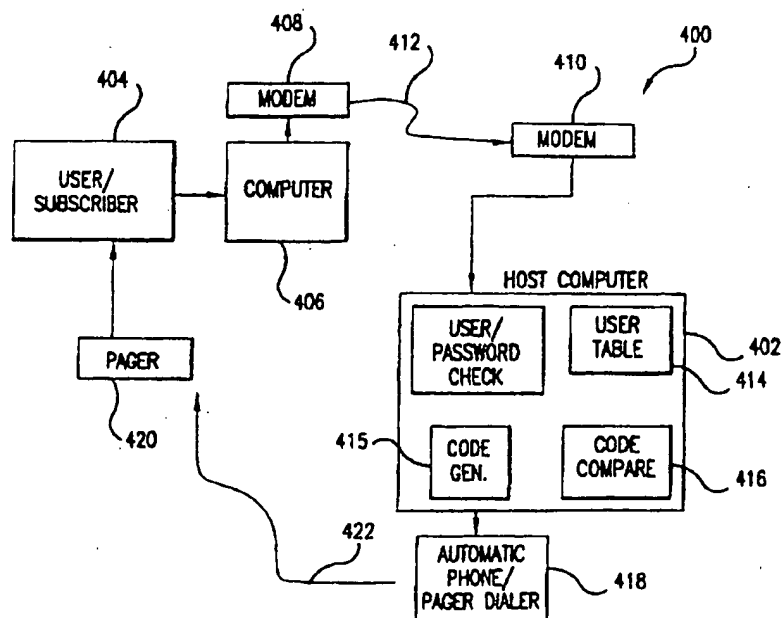


FIG. 6



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# EUROPEAN SEARCH REPORT

Application Number  
EP 97 89 0210

| DOCUMENTS CONSIDERED TO BE RELEVANT  |  |  |  |
|--|--|--|--|
| Category   | Citation of document with indication, where appropriate, of relevant passages  | Relevant to claim                                    | CLASSIFICATION OF THE APPLICATION (Int.Cl.6) |
| X  | WO 95 19593 A (KEW MICHAEL JEREMY ; LOVE JAMES SIMON (GB))<br>* abstract; figure 1 *<br>* page 1, line 20 - page 3, line 23 *                            | 1,5  | G06F1/00                                     |
| Y  | ---  | 6  |  |
| X  | GB 2 229 020 A (ELLIS CHRIS KEIRON)<br>* abstract *<br>* page 3, paragraph 2 - page 6, last paragraph *<br>* page 7, paragraph 2 - page 8, paragraph 1 * | 2  |  |
| Y  | ---  | 6  |  |
| A  | EP 0 558 326 A (HUGHES AIRCRAFT CO)<br>-----   |  |  |
|  |  |  | TECHNICAL FIELDS SEARCHED (Int.Cl.6)         |
|  |  |  | G06F   |
| The present search report has been drawn up for all claims.  |  |  |  |
| Place of search<br>THE HAGUE   |  | Date of completion of the search<br>19 February 1998 | Examiner<br>POWELL D.                        |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</p> <p>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p> |  |  |  |



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### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid.
- namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions.

namely:

See Sheet B.

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid.
- namely claims:
- ☒ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.
- namely claims: 1, 2, 5, 6



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LACK OF UNITY OF INVENTION  
SHEET B

Application Number  
EP 97 89 0210

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1,2,5,6

Secure access to a computer

2. Claim : 3

Data transmission using plural channels

3. Claim : 4

Data transmission with interspersed filler data